

K6-linked diUb

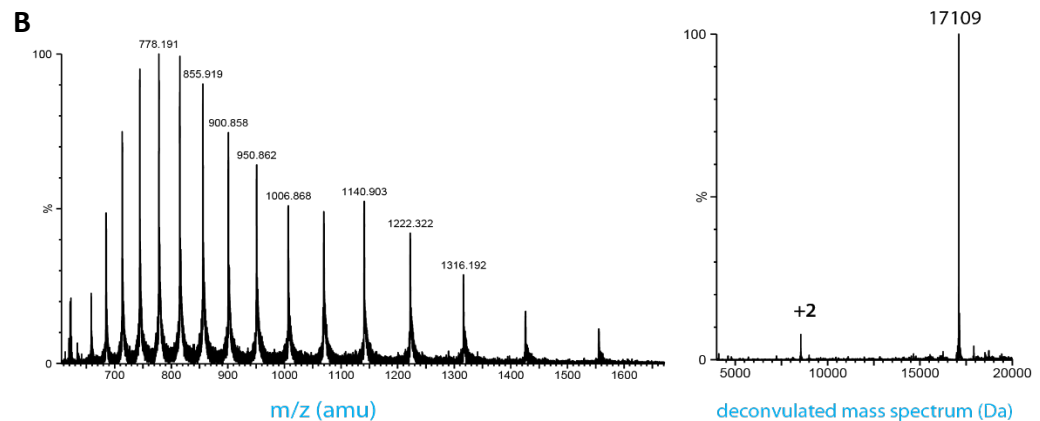
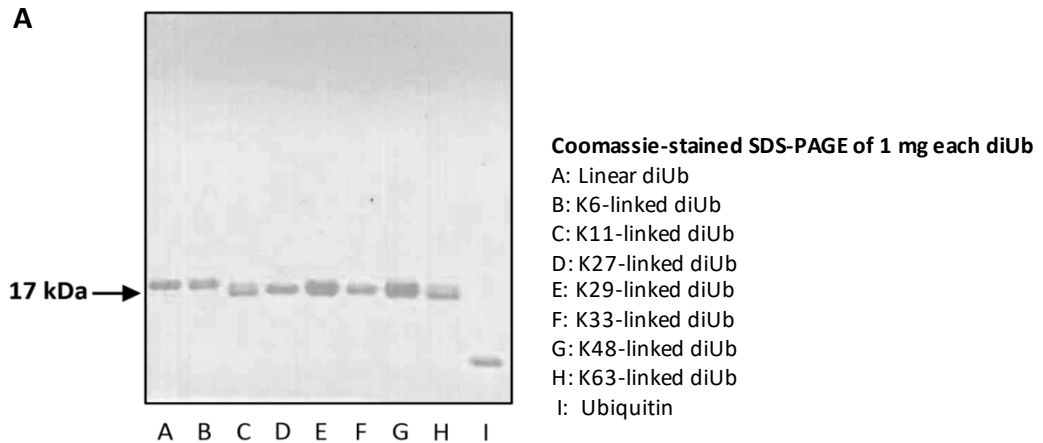
Cat. # D5110

Quantity: 25 µg
Species: Human
Source: Synthetic
MW: 17109 Da
Form: Lyophilized powder
Quality Assurance: ≥95% by RP-HPLC and SDS-PAGE
Sequence:

MOIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGG
 MOIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGG

Description: K6-linked diUb is a native K6 linked di-Ub which can be used as a substrate for proteases that cleave the isopeptide linkage between two ubiquitin molecules. It can also be used to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs). This product is formed by chemical ligation.

Images:



B: LC-MS analysis. Mobile phase A = 1% CH₃CN, 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in CH₃CN. Phenomenex Kinetex



Storage: Powder at -20°C ; Solution at -80°C . Please avoid multiple freeze/thaw cycles.

Sample Preparation (Important!):

- 1) Centrifuge the tube at 10,000 xg for 2 min to pellet the powder.
- 2) Dissolve the powder in a small amount of DMSO (e.g. 25 μg powder in 1 μL DMSO). Vortex the tube to completely dissolve the powder. Keep under room temperature for 5 min, and then centrifuge under room temperature at 10,000 xg for 2 min to collect solution to the tube bottom.
- 3) Add 49 μL cold buffer (such as 20 mM Tris, pH 7.2, 150 mM NaCl and 10% glycerol) directly into the tube bottom in once, and pipette up and down to mix (avoid generating bubbles and note the order of addition).
- 4) The stock solution is 0.5 $\mu\text{g}/\mu\text{L}$ (29 μM).

Literature:

1. A. Faesen *et al.* , (2011) *Chemistry & Biology*, 18, 1550.
2. I. Dikic *et al.* , (2010) *Nature Reviews Molecular Cell Biology* 10, 659.
3. J. D. F. Licchesi *et al.* , (2012) *Nature Structural & Molecular Biology* 19, 62.
4. F. El Oualid *et al.* , (2010) *Angewandte Chemie Int. Ed.* 49, 10149.

